CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2015 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2017

Job No.: CTCE/BBMP/ANR/W.No.15/CSR-51b/CEMENT/2020-21

Date: 15.10.2020

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. Avinash.N.Rao,** #180, 4th Main, 8th Mile, MS Ramaiah Layout, Nagasandra Post, Bangalore – 560073.
*** Name of Work**	:	Filling of potholes CC road main road and cross in Ward No.15, BBMP, Bangalore.
*** Reference**	:	EE/DD/LOA/15/2020-21 Dated : 16.09.2020
*** Sample ID**	:	Cement
Sample Received on	:	13.10.2020
Period of Testing	:	13.10.2020 to 15.10.2020
Report Issue Date	:	15.10.2020

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	Standard Consistency	IS-4031 (Part -4) : 1988 (RA-2019)	28.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	180 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) : 1988 (RA-2019)	380 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) : 1988 (RA-2019)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

Civil-Tech Consultants & Engineers Bangalore

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M/s. Civil-Tech Consultants & Engineers

Authorised Signatory

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Job No.: CTCE/BBMP/ANR/W.No.15/CSR-51b/SAND-Gradation/2020-21

15.10.2020

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Avinash.N.Rao,** #180, 4th Main, 8th Mile, MS Ramaiah Layout, Nagasandra Post, Bangalore – 560073.
* Name of Work	:	Filling of potholes CC road main road and cross in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/15/2020-21 Dated : 16.09.2020
* Sample ID	:	Fine Aggregates (Manufactured Sand)
Test Method As Per	:	IS - 2386 (Part 1) : 1963 (RA-2016)
Sample Received On	:	13.10.2020
Date of Testing	:	15.10.2020
Report Issue Date	:	15.10.2020

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-2016			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	97.00	90-100	90-100	90-100	95-100
2.36	79.80	60-95	75-100	85-100	95-100
1.18	66.60	30-70	55-90	75-100	90-100
600 Micron	40.40	15-34	35-59	60-79	80-100
300 Micron	13.40	5-20	8-30	12-40	15-50
150 Micron	3.40	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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Job No.: CTCE/BBMP/ANR/W.No.15/CSR-51b/Cube/2020-21

14.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Avinash.N.Rao,** #180, 4th Main, 8th Mile, MS Ramaiah Layout, Nagasandra Post, Bangalore – 560073.
* Name of the work	:	Filling of potholes CC road main road and cross in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/15/2020-21 Dated : 16.09.2020
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{40}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.11.2020
Report Issue Date	:	14.11.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.195	965.3	42.90
2	17.10.2020	14.11.2020	8.246	958.2	42.59
3	17.10.2020	14.11.2020	8.350	932.7	41.45

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14.11.2020

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** T.Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. Avinash.N.Rao,** #180, 4th Main, 8th Mile, MS Ramaiah Layout, Nagasandra Post, Bangalore – 560073.
* Name of the work	:	Filling of potholes CC road main road and cross in Ward No.15, BBMP, Bangalore.
* Reference	:	EE/DD/LOA/15/2020-21 Dated : 16.09.2020
* Sample ID	:	Road Concrete
Test Method as per	:	IS - 516 : 1959 (RA-2018)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{40}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.11.2020
Report Issue Date	:	14.11.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.090	928.9	41.28
2	17.10.2020	14.11.2020	8.113	934.6	41.54
3	17.10.2020	14.11.2020	8.380	951.8	42.30

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.11.2020
Report Issue Date	:	14.11.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.119	930.5	41.36
2	17.10.2020	14.11.2020	8.240	955.8	42.48
3	17.10.2020	14.11.2020	8.393	985.6	43.80

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* Grade of Concrete	:	M_{40}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	14.11.2020
Report Issue Date	:	14.11.2020

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.223	936.7	41.63
2	17.10.2020	14.11.2020	8.382	973.5	43.27
3	17.10.2020	14.11.2020	8.465	962.3	42.77

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Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.10.2020	14.11.2020	8.139	951.3	42.28
2	17.10.2020	14.11.2020	8.225	966.4	42.95
3	17.10.2020	14.11.2020	8.373	985.7	43.81

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